



TANIA TURBINE OILS

Tesla Tania oils are very good performance turbine oils specially designed for use in geared and non-geared steam turbines, gas turbines and combined cycle gas turbines (CCGT) including gas turbines operating at high temperatures and possesses outstanding thermal and oxidation stability, good load carrying capacity, excellent water separability, superior rust and corrosion inhibition, low foaming tendency, good air release properties and resistance to chemical degradation to provide excellent equipment protection, reliable operation, with reduced down-time and extended service life. Tesla Tania oils exceed the performance requirements of specifications of major gas and steam turbine manufacturers.

Tesla Tania oils have outstanding thermal and oxidation stability that prevents sludge formation, controls deposits and minimizes oil degradation leading to reliable operation. Superior anti-wear property and load carrying capability provide excellent protection for geared turbines. Excellent water separation capability resists formation of emulsion and leads to easy removal of excess water from the lubrication system. Effective rust and corrosion inhibitors provide long term protection to critical system components and good air release properties and foam control avoid erratic operation and pump cavitations leading to trouble free operation.

Tesla Tania oils are recommended for power generation gas turbines, combined cycle gas turbines (CCGT), large heavy-duty industrial gas turbines, power generation and industrial steam turbines and turbines with heavily loaded gears and turbo compressors.

Specifications: ASTM D 4304, Type I (non-EP) and Type II (EP), ISO 8086 TSE, TGE, TSA and TGA BS 489, DIN 51515 Part 1 (TD) and Part 2 (TG), GEK 28143A, Solar ES 9-224 Class II Siemens TLV 901304, Alstom HTGD 90117 V 0001T

Property:	Test Method:	Typical Values:		
ISO Viscosity Grade	ISO 3448	32	46	68
Density @ 15°C kg/m ³	ASTM D4052 ,	0.852	0.855	858
Cst @ 40°C mm ² /s	ASTM D7042 ,	32	46	68
Viscosity Index	ASTM D2270	105	100	105
Flash Point , deg C	ASTM D92	205	220	220°C
Pour Point degC	ASTM D97 .	-18	-15	-15°C
TAN mg KOH/g	ASTM D664 ,	0.1	0.1	0.1
Rust Test	ASTM D665A/B	Pass	Pass	Pass
Copper Corrosion	ASTM D130	1b	1b	1b
Air Release Value minutes at 50 deg C	ASTM D3427 ,	4 Minutes	5 Min	5 min.
TOST , Hrs	ASTM D943	>10000	>10000	>10000
P.Code		2526	2527	2528

Color Varies from Country to Country. Properties mentioned above are typical only and minor variations, which do not affect the product performances, are to be expected in normal manufacturing. Advice and opinion noted herein are given in good faith and on the basis of the best information available, information is based on past history of the grade only and must not be construed as a guarantee of performance nor any legal liability is accepted by Tesla Corporation or any of its affiliates. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available with your nearest TESLA office or at www.teslalube.com © Tesla Corporation, 2011

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Date Superseded:

Revision nr:

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